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Claims

- 1-9 Canceled
- 10. (New) An exposure control method for a camera with at least one image sensor in which an image brightness set-point (Hsoll) is preset and control is carried out with reference to this image brightness set-point (Hsoll), the method comprising:
 - adjusting a gradient (a) by controlling at least one of an integration time or an intensification of an image sensor;
 - determining a new gradient from an initial gradient α 1, image brightness set-point Hsoll and current image brightness Hist according to the formula: α 2 = α 1 * Hsoll / Hist.
- 11. (New) A method according to claim 10, wherein image brightness Hist is compared with a tolerance range (Hsoll1, Hsoll2) around image brightness set-point (Hsoll); and a new gradient *α*2 is preset in one control step only if image brightness Hist lies outside said tolerance range (Hsoll1, Hsoll2) around image brightness set-point (Hsoll).
- 12. (New) A method according to claim 10, wherein a preset characteristic of a characteristic (K) of the dependence of image brightness (H) on illumination (B) is taken into consideration when determining new gradient *α*2.
- 13. (New) A method according to claim 12, wherein characteristic K does not run through origin U and new gradient α2 is determined considering at least one offset value Offs1 according to the following formula: α2 = α1 * (Hsoll Offs1) / (Hist Offs1).
- 14. (New) A method according to claim 13, wherein for each gradient (α 2, α 1) a respective offset value (Offs1, Offs2) is provided and new gradient α 2 is determined

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considering said respective offset values according to the following formula: a2 = a1 * (Hsoll - Offs1) / (Hist - Offs2).

- 15. (New) An exposure control device for a camera with at least one image sensor in which an image brightness set-point Hsoll is preset and control is carried out with reference to this image brightness set-point Hsoll, the device comprising:
 - a computer for evaluating images and for substantially controling exposure and image brightness.
- 16. (New) A device according to claim 15, wherein specific, relevant pixels are selected to measure an image brightness and image brightness control is substantially carried out with reference to selected regions.
- 17. (New) A device according to claim15, wherein the computer uses an adjusted sensitivity for the current image brightness of a scene the image of which is being formed and for providing this value to a system.
- 18. (New) A device according to claim 15, wherein the device is used in vehicle environment monitoring camera for motor vehicles.